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SNX2 antibody - C-terminal region
Rabbit Polyclonal Antibody
Catalog # AI15119

Specification

SNX2 antibody - C-terminal region - Product Information

Application	**WB**
Primary Accession	O60749
Other Accession	NM_003100, NP_003091
Reactivity	**Human, Mouse, Rat, Rabbit, Horse, Bovine, Guinea Pig, Dog**
Predicted	**Human, Mouse, Rat, Rabbit, Pig, Horse, Bovine, Guinea Pig, Dog**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**58kDa KDa**

SNX2 antibody - C-terminal region - Additional Information

Gene ID 6643

Alias Symbol	**MGC5204, TRG-9**

Other Names
Sorting nexin-2, Transformation-related gene 9 protein, TRG-9, SNX2

Format
Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

Reconstitution & Storage
Add 50 ul of distilled water. Final anti-SNX2 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

Precautions
SNX2 antibody - C-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

SNX2 antibody - C-terminal region - Protein Information

Name SNX2

Function
Involved in several stages of intracellular trafficking. Interacts with membranes containing phosphatidylinositol 3-phosphate (PtdIns(3P)) or phosphatidylinositol 3,5-bisphosphate (PtdIns(3,5)P2) (PubMed:16179610). Acts in part as component of the retromer membrane-deforming SNX-BAR subcomplex (PubMed:17101778). The SNX-BAR retromer mediates retrograde transport of cargo proteins from endosomes to the trans-Golgi network (TGN) and is involved in endosome-to-plasma

membrane transport for cargo protein recycling. The SNX-BAR subcomplex functions to deform the donor membrane into a tubular profile called endosome-to-TGN transport carrier (ETC) (Probable). Can sense membrane curvature and has in vitro vesicle-to-membrane remodeling activity (PubMed:23085988). Required for retrograde endosome-to-TGN transport of TGN38 (PubMed:20138391). Promotes KALRN- and RHOG-dependent but retromer-independent membrane remodeling such as lamellipodium formation; the function is dependent on GEF activity of KALRN (PubMed:20604901).

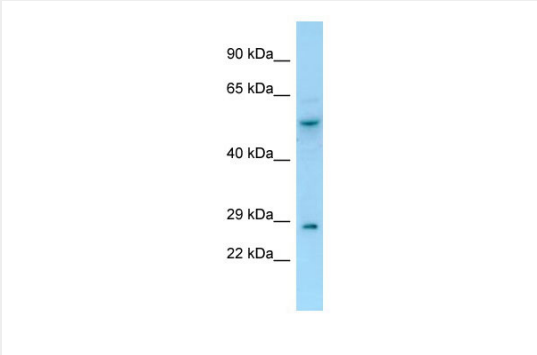
Cellular Location
Early endosome membrane; Peripheral membrane protein; Cytoplasmic side. Cell projection, lamellipodium Note=Colocalized with SORT1 to tubular endosomal membrane structures called endosome-to-TGN transport carriers (ETCs) which are budding from early endosome vacuoles just before maturing into late endosome vacuoles (PubMed:18088323). Colocalized with F-actin at the leading edge of lamellipodia in cells in a KALRN-dependent manner (PubMed:20604901).

SNX2 antibody - C-terminal region - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

SNX2 antibody - C-terminal region - Images



WB Suggested Anti-SNX2 Antibody Titration: 1.0 µg/ml
Positive Control: Hela Whole Cell

SNX2 antibody - C-terminal region - References

Kurten R.C.,et al.Submitted (JAN-1998) to the EMBL/GenBank/DDBJ databases.
Haft C.R.,et al.Mol. Cell. Biol. 18:7278-7287(1998).
Kim J.W.,et al.Submitted (APR-2003) to the EMBL/GenBank/DDBJ databases.
Kalnine N.,et al.Submitted (AUG-2003) to the EMBL/GenBank/DDBJ databases.
Ota T.,et al.Nat. Genet. 36:40-45(2004).